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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/516,308	12/14/2005	Stefan Uhrlandt	262159US0PCT	3875
22859 7590 01/22/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			QIAN, YUN	
ALEXANDRI	ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER
			1793	
			NOTIFICATION DATE	DELIVERY MODE
			01/22/2009	EL ECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/516,308 UHRLANDT ET AL. Office Action Summary Examiner Art Unit YUN QIAN 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 December 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17, 19-21 is/are pending in the application. 4a) Of the above claim(s) 8-15 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7,16,17 and 19-21 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date 3/9/2005, 4/5/2005, 10/11/2005, 12/10/2004.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application



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DETAILED ACTION

Response to Election/Restrictions

Applicant's election with traverse of Group I claims 1-7, 16-17, and 19-21 in the response filed on December 12, 2008 is acknowledged.

Applicants' arguments are not found persuasive because (1) the claims are interpreted in light of the description, but not limited by the description, i.e. limitations are not read into the claims; and (2) the special technical features (and thus unity) are lacking as claim 1 is obvious over Blume et al and Bomal et. al..

The requirement is still deemed proper and is therefore made FINAL.

The claims 8-15 are withdrawn from consideration. The claim 18 was canceled previously.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 19-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For the purpose of examination, the limitations of the precipitated silica of claims 1 and 8, respectively have been injected into elected claims 19 and 21 and 20, respectively.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skil in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-7, 16-17, and 19-21 rejected under 35 U.S.C. 103 (a) as being unpatentable over Blume et al. EP 0983966 (herein referred to under the equivalent of US pat. 6.268.424) in view of Bomal et al (US 5.800.608).

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Regarding claim 1, Blume et al. disclose a precipitated silica containing:

- (a) BET 80-180 m²/g,
- (b) CTAB 80-139 m²/g,
- (c) Al₂O₃ <5%, Sears number 5-25 ml (abstract).

Although the CTAB taught by Blume et al. is to some extent outside the instant claim 1, Bomal et al teaches a process of making precipitated silica containing CTAB between 140-200 m²/g, which is overlaps the instant claimed, see MPEP 2144.05:

"In the case where the claimed ranges "overlap or lie inside ranges disclosed by the prior art" a prima facie case of obviousness exists. In re Wertheim, 541 F.2d 257. 191 USPQ 90 (CCPA 1976); In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir. 1990) (The prior art taught carbon monoxide concentrations of "about 1-5%" while the claim was limited to "more than 5%." The court held that "about 1-5%" allowed for concentrations slightly above 5% thus the ranges overlapped.); In re Geisler, 116 F.3d 1465, 1469-71, 43 USPQ2d 1362, 1365-66 (Fed. Cir. 1997) (Claim reciting thickness of a protective layer as falling within a range of "50 to 100 Angstroms" considered prima facie obvious in view of prior art reference teaching that "for suitable protection, the thickness of the protective layer should be not less than about 10 nm fi.e., 100 Angstroms]." The court stated that "by stating that suitable protection' is provided if the protective layer is about' 100 Angstroms thick. Ithe prior art reference directly teaches the use of a thickness within [applicant's] claimed range."). Similarly, a prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same

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properties. Titanium Metals Corp. of America v. Banner, 778 F.2d 775, 227 USPQ 773 (Fed. Cir. 1985) (Court held as proper a rejection of a claim directed to an alloy of "having 0.8% nickel, 0.3% molybdenum, up to 0.1% iron, balance titanium" as obvious over a reference disclosing alloys of 0.75% nickel, 0.25% molybdenum, balance titanium and 0.94% nickel, 0.31% molybdenum, balance titanium.). "[A] prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a prima facie case of obviousness." In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the specific surface area (CTAB) of Bomal to the composition of Blume et al, motivated by the fact that the precipitated silica taught by Bomal, having the claimed CTAB, has excellent dispersibility and very satisfactory reinforcing prosperities in rubber compositions (abstract, col.9, lines 7-10). Since Blume and Bomal teach compositions of precipitated silica and have a reasonable expectation of success, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Regarding claim 2, the precipitated silica taught by Blume et al has an oil absorption capacity (DBP) 200-300 ml/100g, which is encompassed by the instantly claimed (abstract).

Regarding claims 3-6, the precipitated silica taught by Blume et al has a BET/CTAB surface ratio of from 1.0-1.6, which encompasses or is encompassed by the instantly claimed (abstract, Examples 1-5, col. 9-col.11).

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Regarding claim 6, the precipitated silica taught by Blume et al has a wk coefficient <3.4. which is encompassed by the instantly claimed (abstract).

Regarding claim 7, the precipitated silica taught by Blume et al contain organosilanes, represented by the formulas I to III shown below. They encompass the instantly claimed (col. 4, lines 15-47).

$$[R^{2}_{n}-(RO)_{3,n}S:-(Aik)_{n}-(Ar)_{n}]_{n}[B]$$
 (I),

$$R^{1}_{n}(RO)_{3,n}Si-(aikyi)$$
 (II),

or

$$R^{1}_{n}(RO)_{3-n}Si$$
-(alkenyl) (III),

Regarding claims 16-17, the precipitated silica taught by Blume et al can be used in all rubber applications, particularly in tires as per applicant claims 16-17 (col. 6, line 52-col. 7, line14).

Regarding claims 19-20, the precipitated silica prepared according to the method of Blume et al can be used in all rubber applications, particularly in tires (Example 1, col.9, lines 19-44, and col. 6, line 52-col. 7, line14).

Regarding claim 21, the precipitated silica taught by Blume et al can be used in battery separators as instantly claimed (col. 7, lines 15-17).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YUN QIAN whose telephone number is (571)270-5834. The examiner can normally be reached on Monday-Thursday, 10:00am -4:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J.A. LORENGO/ Supervisory Patent Examiner, Art Unit 1793 /YUN QIAN/ Examiner, Art Unit 1793